Product data sheet

modular single phase power meter iEM2155 - 230V - 63A with communication Modbus - MID

A9MEM2155

⚠ **Discontinued on:** Sep 22, 2023

⚠ **End-of-service on:** Apr 1, 2024

⚠ **Discontinued**

Main

Range	Acti9
Family	Acti9 iEM2100
Device Short Name	iEM2155
Product Or Component Type	Energy meter

Complementary

Poles Description	1P + N
Type Of Measurement	Active and reactive energy Active and reactive power Current Voltage Power factor Frequency
Metering Type	Active, reactive, apparent energy (signed, four quadrant)
Device Application	Partial meter Sub billing Multi-tariff
Accuracy Class	Class 1 active energy conforming to IEC 62053-21 Class B active energy conforming to EN 50470-3 Class 2 reactive energy conforming to IEC 62053-23
Input Type	Direct input
Maximum Current [Imax]	63 A
[Ib] Basic Current	5 A
Rated Current	63 A
Rated Voltage	230 V +/- 20 %
Network Frequency	60 Hz 50 Hz
Frequency Measurement Range	45…65 Hz
Technology Type	Electronic
Display Type	LCD display
Sampling Rate	32 samples/cycle
Measurement Current	0.5…63 A
Display Digits	8
Maximum Value Measured	999999.99 kWh

Tariff Counter	Tariff (2)
Communication Port Protocol	Modbus RTU at 1.2, 2.4, 4.8, 9.6, 19.2 and 38.4 kbauds even/odd or none - 3 wires, insulation 4000 V
Communication Port Support	Screw terminals: RS485
Local Signalling	Red LED: accuracy checking 1...1000 p/kWh
Digital Inputs	1 digital
Supply Voltage	96...276 V AC 50 Hz
Maximum Power Consumption In Va	3 VA at 240 V AC
Maximum Power Consumption In W	1 W
[Uimp] Rated Impulse Withstand Voltage	6 kV 1.2/50 µs
Mounting Mode	Clip-on
Mounting Support	DIN rail
Connections - Terminals	Power circuit: tunnel type terminals (bottom) 1 1.65…33 mm² cable(s) solid Power circuit: tunnel type terminals (bottom) 1 1.65…33 mm² cable(s) stranded with cable end Communication: screw clamp terminals (top) 1 1…4 mm² cable(s) solid Communication: screw clamp terminals (top) 1 1…2.5 mm² cable(s) stranded with cable end
Tightening Torque	Power circuit: 2 N.m PZ2 screwdriver Communication: 0.5 N.m3.5 mm
Wire Stripping Length	Power circuit: 17 mm Communication: 7 mm
Standards	IEC 62052-11 IEC 62053-23 IEC 62052-31 IEC 62053-21
Product Certifications	MID conforming to EN 50470-1 MID conforming to EN 50470-3 CE

Environment

Ip Degree Of Protection	IP40 front panel: conforming to IEC 60529 IP20 casing:
Overvoltage Category	III
Pollution Degree	2
Flame Retardance	V0 conforming to UL 94
Ambient Air Temperature For Operation	-25…55 °C
Ambient Air Temperature For Storage	-25…70 °C
Operating Altitude	< 2000 m
Relative Humidity	0…95 % at 55 °C
Colour	White
9 Mm Pitches	4
Width	36 mm
Height	90 mm
Depth	70 mm
Net Weight	0.175 kg

Life Is On | Schneider Electric

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.2 cm
Package 1 Width	8.0 cm
Package 1 Length	9.8 cm
Package 1 Weight	219.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	29
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	6.806 kg

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Well-being performance

✅ Reach Free Of Svhc

✅ Toxic Heavy Metal Free

✅ Mercury Free

✅ Rohs Exemption Information   Yes

Eu Rohs Directive   Compliant

                                      EU RoHS Declaration

China Rohs Regulation   China RoHS declaration